# Certificate of constancy of performance
# 0620-CPR-44024/21

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| **Issued** | *2021-04-07* | **Replaces** | *0620-CPR-44024/20* |
| **First issued** | *2007-12-01* | **Page** | *1 of 2* |

CERTIFICATE

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

## *Aluminium lighting columns*

Intended for use as road lighting columns for circulation areas
whereby the scope of construction product(s) is listed on page 2 of this certificate

placed on the market under the name or trademark of

## *Nedal Aluminium b.v.*

and produced in the manufacturing plant

## *Utrecht*

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard
**EN 40-6:2002**

under system 1 for the performances set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the **constancy of performance of the construction product**.

This certificate was first issued on 1 December 2007 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Ron Scheepers
Managing director

562/201204

*Publication of this certificate is allowed.*
*Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.*


**Kiwa Nederland B.V.**
Sir Winston Churchilllaan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands
Tel. +31 88 998 44 00
Fax +31 88 998 44 20
info@kiwa.nl
www.kiwa.nl

Notified Body No. 0620

**Manufacturer**
Nedal Aluminium b.v.
Groenewoudsedijk 1
3528 BG UTRECHT
Postbus 2020
3500 GA UTRECHT
Tel. 030-2925711
www.nedal.nl

**Manufacturing plant**
Nedal Aluminium b.v.
Groenewoudsedijk 1
3528 BG UTRECHT
Postbus 2020
3500 GA UTRECHT
Tel. 030-2925711
www.nedal.nl

# Aluminium lighting columns

## Construction products

Aluminium lighting columns intended for use as road lighting columns for circulation areas according to EN 40-6: 2002 annex ZA.1 as indicated in the table below and for which at least one of the essential characteristics is declared as specified in the paragraph below.

The aluminium lighting columns may be:

1) Stepped, conical or cylindrical aluminium without or with single or double bracket;
2) With root section and or flange plate;
3) Equipped with 0 or more doors. The doors can be with the dimensions as be given in EN 40-6 and equipped with expanded inner reinforcement tube (reinforced door opening according to EN40-3-3 type 5);
4) installed with ALC MK3 Hinge above door with an maximum base capacity of 25,3 kN and a maximum Hinge capacity of 13,6 kN.

| Product name | Description | Types |
|---|---|---|
| **Boulevard** | Conical straight Column | universal (straight) extension spigot<br>single extension spigot<br>multiple extension spigot |
| **Avenue** | Stepped straight Column | universal (straight) extension spigot<br>single extension spigot<br>multiple extension spigot |
| **Faubourg** | Cylindrical straight Column | universal (straight) extension spigot<br>single extension spigot<br>multiple extension spigot |
| **Plaza** | Conical Column with bracket (Conical hockeystick column) | standard<br>conical bent model |
| **Promenade** | Stepped Column with bracket (Stepped hockeystick column) | |
| **Special** | Combination of above mentioned types, satisfying EN40 requirements | |
| **Hinged columns** | Seamless conical and stepped columns with ALC 3 MK 3 Hinge installed | |

## Essential characteristics

***Resistance to horizontal loads***

The aluminium lighting columns within the scope of this certificate are designed to sustain safely the horizontal loads specified in EN 40-3-1 which is verified by calculation in accordance with EN 40-3-3.

***Performance under vehicle impact (passive safety according to EN 12767)***

For the aluminium lighting columns which fall within the range of the table below the performance class (passive safety code) is determined.

These aluminium lighting columns may be:

1) Stepped, conical or cylindrical aluminium without or with single or double bracket;
2) With root section (no flange plate) except when indicated otherwise;
3) Equipped with 0 or more doors. The doors can be with the dimensions as be given in EN 40-6 and equipped with expanded inner reinforcement tube (reinforced door opening according to EN40-3-3 type 5) except when indicated otherwise;
4) installed with ALC MK3 Hinge above door with an maximum base capacity of 25.26 kN and a maximum Hinge capacity of 13.6 kN.

| Passive safety code EN 12767: 2019 | Passive safety code EN 12767: 2007 | Range light source height [m] | Max. bracket projection $[m]^2$ | Max. bending capacity at ground level [kNm] | Backfill type / special installations | Other characteristics |
|---|---|---|---|---|---|---|
| 50-NE-B-S-SE-MD-0<br>70-NE-B-S-SE-MD-0<br>100-NE-B-S-SE-MD-0 | 100-NE-3 | 2 - 5,4 | 1,25 | 7,46 | S | |
| 50-NE-B-X-SE-MD-0<br>70-NE-B-X-SE-MD-0<br>100-NE-B-X-SE-MD-0 | 70-NE-3<br>100-NE-3 | 2 - 15 | 2 | 29,91 | X | With shear-off construction |
| 50-NE-C-S-SE-MD-0<br>70-NE-C-S-SE-MD-0<br>100-NE-C-S-SE-MD-0 | 100-NE-2 | 2 - 10 | 1,75 | 9,85 | S | HDPE root section |
| 100-NE-C-S-SE-MD-1 | 100-NE-2 | 2 - 12 | 2 | 14,83 | S | HDPE root section |
| 100-NE-C-S-SE-MD-0 | 100-NE-2 | 2 - 12,4 | 1,5 | 18,70 | S | |
| 50-NE-C-R-SE-MD-0<br>70-NE-C-R-SE-MD-0<br>100-NE-C-R-SE-MD-0 | 100-NE-2 | 2 - 18,1 | 1,5 | 29,91 | S | Fixed flange plate with break bolts |
| 50-NE-C-R-SE-MD-0<br>70-NE-C-R-SE-MD-0<br>100-NE-C-R-SE-MD-0 | 70-NE-2<br>100-NE-2 | 2 - 9 | 0,6 | 9,27 | R - Installed 200 mm below ground level on rigid base | |
| 100-NE-D-S-SE-MD-NR | 100-NE-1 | 2 - 10 | 1,25 | 33,56 | S | With elongated inner tube below ground level |
| 100-LE-C-S-SE-BD-0 | 100-LE-3 | 10 | 1,25 | 18,70 | S – fixed at least 1.7 m below ground level | Special elongated inner tube above ground level |
| 100-LE-D-S-SE-BD-0 | 100-LE-2 | 8 - 12,4 | 1,25 | 18,70 | S – fixed at least 1.7 m below ground level | Special elongated inner tube above ground level |